## **AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently amended): A pattern observation apparatus comprising:

a table generating section for generating a table in which a scan order is associated with scan positions, wherein the table generating section generates the table by selecting the scan positions at random according to the scan order;

a charged particle beam scanning mechanism for scanning, according to the table, a charged particle beam over a sample on which a pattern is formed;

a detection mechanism for detecting secondary electrons produced from the sample by the scanning of the charged particle beam, and outputting secondary electron detection signals;

an image information generating section for rearranging the secondary electron detection signals in association with the scan positions on the basis of the table, thereby generating image information of a surface of the sample; and

a pattern position determination section for determining a pattern position on the basis of the image information.

- 2. (Canceled):
- 3. (Original): A pattern observation apparatus according to claim 1, wherein said table has a first scan procedure and a second scan procedure, and

a locus of the charged particle beam scanned by the second scan procedure is substantially equal to a locus of the charged particle beam scanned by the first scan procedure, and both loci are reverse to each other.

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4. (Original): A pattern observation apparatus according to claim 1, further comprising a charged particle beam exposure section for effecting an alignment exposure of a desired pattern, on the basis of the pattern position determined by the pattern position determination section.

5. (Original): A pattern observation apparatus according to claim 1, wherein said sample has a first mark formed in a substrate and a second mark formed on a surface of the substrate, the first and second marks serving as a reference for alignment exposure, and

the pattern observation apparatus further comprises relative position measuring means for measuring a relative position of the first mark and the second mark.

6. (Currently amended): A pattern observation apparatus for observing a pattern by radiating a charged particle beam on a sample in which the pattern is formed on a substrate, the apparatus comprising:

a first beam radiation section for performing a first charged particle beam radiation on a sample in which a pattern is formed on a substrate and a surface of the substrate including the pattern is covered with an insulating film whose surface is flat including the pattern, and charging a surface of the sample;

a second beam radiation section for scanning the charged particle beam over the pattern under conditions different from conditions for the first charged particle beam radiation, wherein the first and second beam radiation sections include different beam sources, and a first beam radiation area of the first radiation section is greater than a second beam radiation area of the second radiation section; and

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an observation section for observing the pattern by detecting secondary electrons from the surface of the sample.

7. (Original): A pattern observation apparatus according to claim 6, wherein said first and second beam radiation sections are composed of the same beam source, and

the pattern observation apparatus further comprises:

a radiation condition setting section for setting radiation conditions which are different-at-least-between-the-first-radiation-section-and-the-second-radiation-section; and

a radiation condition switching section for switching, when the pattern is observed, the radiation conditions of the first radiation section to the radiation conditions of the second radiation section.

- 8. (Canceled):
- 9. (Original): A pattern observation apparatus according to claim 6, further comprising:

a pattern position detection section for detecting a pattern position on the basis of the pattern observed by the observation section; and

a charged particle beam exposure section for effecting an alignment exposure of a desired pattern on the basis of the pattern position.

10. (Original): A pattern observation apparatus according to claim 6, wherein said pattern is formed on the substrate as a reference for an alignment exposure, and a mark is formed on a surface of the substrate, and

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omprises relative position measuring

the pattern observation apparatus further comprises relative position measuring means for measuring a relative position of the pattern and the mark.

11. (Currently amended): A pattern observation method comprising the steps of:

generating a table in which a scan order is associated with scan positions;
scanning a charged particle beam over a sample according to the table, wherein
the table is generated by selecting the scan positions at random according to the scan
order, whereby-the-charged-particle-beam-is-made-to-scan-the-sample-at-random;

detecting secondary electrons produced from the sample by the scanning of the charged particle beam, and outputting secondary electron detection signals;

rearranging the secondary electron detection signals in association with the scan positions on the basis of the table, thereby generating image information of a surface of the sample; and

determining a pattern position on the basis of the image information.

- 12. (Canceled):
- 13. (Original): A pattern observation method according to claim 11, wherein said table has a first scan procedure and a second scan procedure, and

a locus of the charged particle beam scanned by the second scan procedure is substantially equal to a locus of the charged particle beam scanned by the first scan procedure, and both loci are reverse to each other.

14. (Original): A pattern observation method according to claim 11, further comprising a step of effecting an alignment exposure of a desired pattern on the basis of the pattern position determined by the pattern position determination section.

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15. (Original): A pattern observation method according to claim 11, wherein said sample has a first mark formed in a substrate and a second mark formed on a surface of the substrate, the first and second marks serving as a reference for alignment exposure, and

the pattern observation method further comprises a step of measuring a relative position of the first mark and the second mark.

16. (Currently amended): A pattern observation method for observing a pattern\_by\_radiating\_a\_charged\_particle\_beam\_on\_a-sample\_in-which-the-pattern-is-formed on a substrate, the method comprising:

a first step of performing a first charged particle beam radiation on a sample in which a pattern is formed on a substrate, and wherein a surface of the substrate including the pattern is covered with an insulating film whose surface is flat including the pattern, and charging a surface of the sample;

a second step of scanning the charged particle beam over the pattern under conditions different from conditions for the first charged particle beam radiation; and a third step of observing the pattern by detecting secondary electrons from the surface of the sample, wherein

a first beam radiation area of the first charged particle beam radiation is greater than a second beam radiation area of the scanning of the charged particle beam.

- 17. (Original): A pattern observation method according to claim 16, further comprising:
  - a step of detecting a pattern position on the basis of the observed pattern; and

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a step of effecting an alignment exposure of a desired pattern on the basis of the pattern position.

18. (Original): A pattern observation method according to claim 16, wherein said pattern is formed on the substrate as a reference for an alignment exposure, and a mark is formed on a surface of the substrate, and

the pattern observation method further comprises a fourth step of measuring a relative position of the pattern and the mark.

- 19. (Currently-amended): -A-charged particle beam exposure pattern observation method according to claim 16, wherein beam radiation conditions in the first and second steps are varied such that the amount of charged particles radiated on the surface of the sample by the scanning of the charged particle beam becomes less than the amount of charged particles radiated on the surface of the sample by the first beam radiation.
- 20. (Currently amended): A charged particle beam exposure pattern observation method according to claim 16, wherein beam radiation conditions in the first and second steps are varied such that the amount of charged particles radiated on the surface of the sample by the scanning of the charged particle beam becomes less than the amount of charged particles radiated on the surface of the sample by the first beam radiation, and

the beam radiation conditions varied in the first and second steps are at least one of an acceleration voltage, a beam size, a beam current density, a beam scan speed and a beam scan position.

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21. (Currently amended): A charged particle beam exposure pattern

observation method according to claim 16, wherein following the first beam radiation, secondary electrons from the charged surface of the sample are detected to approximately detect the position of the pattern, and the charged particle beam is

scanned on the basis of the detected position.

scanned on the basis of the detected position, and

22. (Currently amended): A charged particle beam exposure pattern
observation method according to claim 16, wherein following the first beam radiation,
secondary-electrons-from-the-charged-surface-of-the-sample-are-detected-toapproximately detect the position of the pattern, and the charged particle beam is

the charged particle beam is scanned, with at least one of an acceleration voltage, a beam size, a beam current density, a beam scan speed, a beam scan position and a beam shape varied in accordance with the position on the sample.

23. (Previously presented): A pattern observation apparatus according to claim 1, wherein

the charged particle beam scanning mechanism performs a first charged particle beam radiation on the sample to charge a surface of the sample, and performs a second charged particle beam radiation on the sample to scan the charged particle beam over the pattern.

24. (Previously presented): A pattern observation method according to claim 1, wherein

the scanning of the charged particle beam includes: performing a first charged particle beam radiation on the sample with a charged particle beam radiating apparatus,

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thereby charging a surface of the sample; and performing a second charged particle beam radiation on the sample with the charged particle beam radiating apparatus, thereby scanning the charged particle beam over the pattern.

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